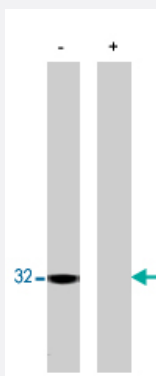


PPP1CA polyclonal antibody

Catalog # PAB10410

Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot of PPP1CA polyclonal antibody (Cat # PAB10410) from total rat brain homogenate. (+) indicates staining done in the presence of specific blocking peptide or (-) peptide control.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PPP1CA.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 317-330 of PPP1CA.
Sequence	RPITPPRNSAKAKK
Host	Rabbit
Reactivity	Bovine, Human, Mouse, Rat
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western blot (1:500 to 1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot of PPP1CA polyclonal antibody (Cat # PAB10410) from total rat brain homogenate. (+) indicates staining done in the presence of specific blocking peptide or (-) peptide control.

- Immunoprecipitation

Gene Info — PPP1CA

Entrez GeneID [5499](#)

Gene Name PPP1CA

Gene Alias MGC15877, MGC1674, PP-1A, PPP1A

Gene Description protein phosphatase 1, catalytic subunit, alpha isoform

Omim ID [176875](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies in both human and mice suggest that PP1 is an important regulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learning and memory. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations protein phosphatase 1, catalytic subunit, alpha|serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit

Pathway

- [Focal adhesion](#)
- [Insulin signaling pathway](#)

- [Long-term potentiation](#)
- [Regulation of actin cytoskeleton](#)
- [Vascular smooth muscle contraction](#)